

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently amended) A heat generator for use in a heating apparatus, comprising:
  - a central shaft in which a core material is ferrite and an outer circumference is coated with resin or non-ferrous metal;
  - an elastic body formed to be a predetermined thickness at a circumference of the central shaft;
  - a conductor layer formed to be a predetermined thickness at a circumference of the elastic body; and
  - a second elastic body formed to be a predetermined thickness at a circumference of the conductor layer,wherein the heat generator is elastically deformed at a position which contacts a member to be contacted with the second elastic body at a predetermined pressure, and can supply heat and pressure to a medium to be supplied between the second elastic body and the member to be contacted, and an image developing agent carried by the medium.
2. (Currently amended) A heat generator according to claim 1, wherein the ~~ferrite central shaft includes material of a quality which does not generate heat when a magnetic field is supplied thereto, or which is not affected by magnitude of a magnetic field used as heat which the conductor layer should generate~~ the central shaft is divided into a plurality of portions in a longitudinal direction, each divided portion being ferrous.
- 3.-10. Cancel
11. (Currently amended) A fixing apparatus comprising:
  - a heat generator including a central shaft in which a core material is ferrite and an outer circumference is coated with resin or non-ferrous metal, an elastic body formed to be a predetermined thickness at a circumference of the central shaft, a conductor layer formed to

be a predetermined thickness at a circumference of the elastic body, and a second elastic body formed to be a predetermined thickness at a circumference of the conductor layer;

a magnetic field generator which provides a magnetic field such that the conductor layer of the heat generator can generate heat; and

a pressure member which is provided along the central shaft of the heat generator, and applies pressure that deforms the elastic body layer by a predetermined amount to a predetermined position of the central shaft or the heating generator,

wherein the central shaft includes material of a quality which does not generate heat when a magnetic field is supplied thereto, or which is not affected by magnitude of a magnetic field used as heat which the conductor layer should generate.

12. (Original) A fixing apparatus according to claim 11, wherein a plurality of the magnetic field generators are provided along a direction in which the central shaft of the heat generator extends.

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18. (Currently amended) An apparatus for fixing an image developing agent carried by a recording material onto the recording material, comprising:

a heat generator which includes a central shaft having a region formed from a first material containing at least ferrite in which a resistivity is  $10^6$  ( $\Omega \cdot m$ ) or more, a Curie temperature is  $180^\circ C$  or more, and a relative permeability is 200 or more, and a region formed from a second material different in a characteristic from the first material, ~~the heat generator further including a central shaft~~, an elastic body formed to be a predetermined thickness at a circumference of the central shaft, a conductor layer formed to be a predetermined thickness at a circumference of the elastic body, and a second elastic body formed to be a predetermined thickness at a circumference of the conductor layer;

a magnetic field generator which provides a magnetic field such that the conductor layer of the heat generator can generate heat; and

a pressure member which is provided along the central shaft of the heat generator, and applies pressure that deforms the elastic body layer by a predetermined amount to a predetermined position of the central shaft or the heating generator.

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